

ABSTRACT

5 A control device detects whether or not an up-converter fails, based on a DC voltage from a voltage sensor, an output voltage from a voltage sensor, and a duty ratio in controlling switching of NPN transistors. If a failure in the up-converter is detected, the control device then controls an inverter and an AC motor such that regenerative electric power generation in the AC motor is prohibited.

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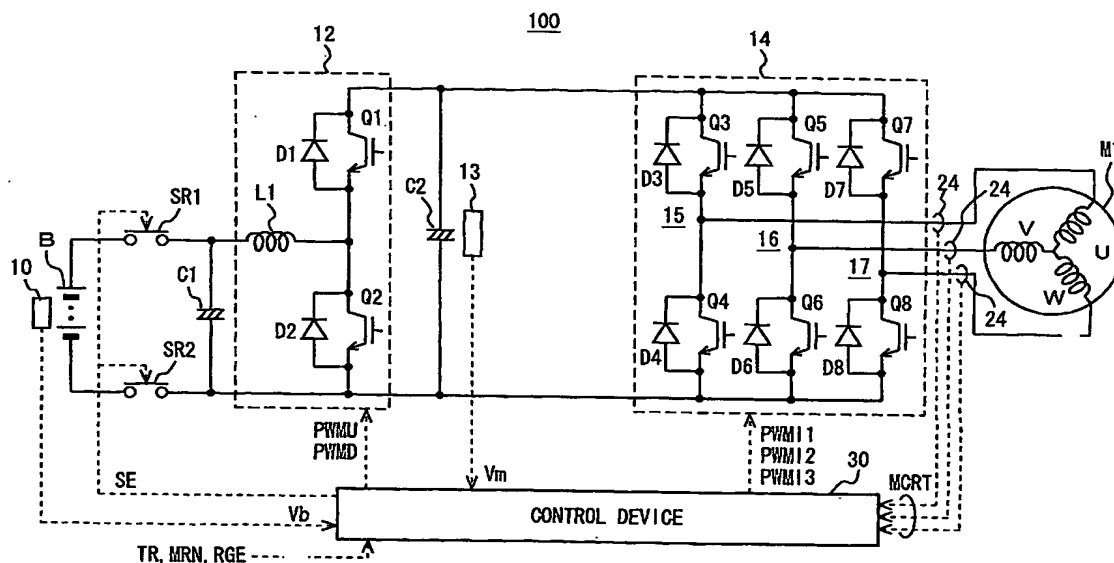
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VOLTAGE CONVERTING DEVICE, COMPUTER READABLE RECORDING MEDIUM WITH PROGRAM RECORDED THEREON FOR CAUSING COMPUTER TO EXECUTE FAILURE PROCESSING, AND FAILURE PROCESSING METHOD



(57) Abstract: A control device (30) detects whether or not an up-converter (12) fails, based on a DC voltage (Vb) from a voltage sensor (10), an output voltage (Vm) from a voltage sensor (13), and a duty ratio in controlling switching of NPN transistors (Q1, Q2). If a failure in the up-converter (12) is detected, the control device (30) then controls an inverter (14) and an AC motor (M1) such that regenerative electric power generation in the AC motor (M1) is prohibited.

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